Federal Communications Commission
Washington, D.C. 20554

DA 16-1198

October 19, 2016

Mr. Robert Cosgrove
Sprint Corporation
12502 Sunrise Valley Drive
Reston, VA 20196

Call Sign: E060148
File No.: SES-MOD-20160712-00649

Call Sign: E040169
File No.: SES-MOD-20160712-00650

Call Sign: E060147
File No.: SES-MOD-20160712-00651

Dear Mr. Cosgrove:

On July 13, 2016, Nextel Communications of the Mid-Atlantic, Inc. ("Nextel") filed the above-captioned applications to modify its current 12/14 GHz VSAT network licenses to add three different remote antennas (1.2 meters, 2.4 meters and 1.5 meters) to operate in the 14.0-14.5 GHz (Earth-to-space) and 11.7-12.2 GHz (space-to-Earth) frequency bands. Pursuant to Section 25.112(a)(1) of the Commission's rules, 47 C.F.R. § 25.112(a)(1), we dismiss the applications, without prejudice to re-filing.[1]

Section 25.112(a) of the Commission's rules, 47 C.F.R. § 25.112(a), requires the Commission to return as unacceptable for filing any earth station application that is not substantially complete, that contains internal inconsistencies, or does not substantially comply with the Commission's rules. For the reasons stated below, Nextel's applications are inconsistent, do not comply with the Commission's rules, and are subject to dismissal.

Call Sign: E060148
File No.: SES-MOD-20160712-00649

In Item E40 of Schedule B, for the Remote #3 antenna, Nextel listed an incorrect value (57.68 dBW) as the total EIRP for all carriers. We calculate the correct value to be 55.3 dBW for all carriers, based on the 43.0 dBi gain of the antenna provided in Item E42 of Schedule B and the total input power at antenna flange (17.1 watts).[2]

In Item E49 of Schedule B, for the Remote #3 antenna, Nextel listed an incorrect value

[1] If Nextel refiles an application in which the deficiencies identified in this letter have been corrected but is otherwise identical to the one dismissed, it need not pay an application fee. *See* 47 C.F.R. § 1.1111(d).

[2] 10 log (17.1) + 43 dBi = 55.3 dBW

(-59.92 dBW/4kHz). We calculate the correct value to be 32.41 dBW/4kHz, based upon the carrier EIRP value of 57.68 dBW provided by Nextel in Item E48, and the emission bandwidth provided in Item E47.[3]

In Item E40 of Schedule B, for the Remote #5 antenna, Nextel listed an incorrect value (58.2 dBW) as the total EIRP for all carriers. We calculate the correct value to be 57.5 dBW for all carriers, based on the 45.7 dBi gain of the antenna provided in Item E42 of Schedule B and the total input power at antenna flange (15.1 Watts).[4]

Call Sign: E040169
File No.: SES-MOD-20160712-00650

In Item E40 of Schedule B, for the Remote #3 antenna, Nextel listed an incorrect value (57.68 dBW) as the total EIRP for all carriers. We calculate the correct value to be 55.3 dBW for all carriers, based on the 43.0 dBi gain of the antenna provided in Item E42 of Schedule B and the total input power at antenna flange (17.1 watts).[5]

In Items E48 and E49 of Schedule B, for the Remote #3 antenna, Nextel listed the same incorrect values (0 dBW/4kHz). We calculate the correct value for E49 to be 30.0 dBW/4kHz, based upon an assumed carrier EIRP value of 55.3 dBW for E48, and the emission bandwidth provided in Item E47.[6]

In Item E40 of Schedule B, for the Remote #5 antenna, Nextel listed an incorrect value (58.2dBW) as the total EIRP for all carriers. We calculate the correct value to be 57.5 dBW for all carriers, based on the 45.7 dBi gain of the antenna provided in Item E42 of Schedule B and the total input power at antenna flange (15.1 Watts).[7]

Call Sign: E040147
File No.: SES-MOD-20160712-00651

In Item E40 of Schedule B, for the Remote #3 antenna, Nextel listed an incorrect value (57.68 dBW) as the total EIRP for all carriers. We calculate the correct value to be 55.3 dBW for all carriers, based on the 43.0 dBi gain of the antenna provided in Item E42 of Schedule B, and the total input power at antenna flange (17.1 watts).[8]

In Item E49 of Schedule B, for the Remote #3 antenna, Nextel listed an incorrect value (-59.92 dBW/4kHz). We calculate the correct value to be 30.0 dBW/4kHz, based upon a carrier EIRP value of 55.3 dBW and the emission bandwidth in Item E47.[9]

[3] 57.68-10*log(1.34x10^6)+ 10*log(4000)= 32.41

[4] 10 log (15.1) + 45.7 dBi = 57.5 dBW

[5] 10 log (17.1) + 43 dBi = 55.3 dBW

[6] 55.3-10*log(1.34x10^6)+ 10*log(4000)= 30.0

[7] 10 log (15.1) + 45.7 dBi = 57.48 dBW

[8] 10 log (17.1) + 43 dBi = 55.3 dBW

[9] 55.3-10*log(1.34x10^6)+ 10*log(4000)= 32.41

In Item E40 of Schedule B, for the Remote #5 antenna, Nextel listed an incorrect value (58.2 dBW) as the total EIRP for all carriers. We calculate the correct value to be 57.5 dBW for all carriers, based on the 45.7 dBi gain of the antenna provided in Item E42 of Schedule B and the total input power at antenna flange (15.1 watts).[10]

In Item E49 of Schedule B, for the Remote #5 antenna, Nextel listed an incorrect value (12 dBW/4kHz). We calculate the correct value to be 32.2 dBW/4kHz, based upon a Carrier EIRP value of 57.5 dBW and the emission bandwidth in Item E47.[11]

Accordingly, pursuant to Section 25.112(a)(1) of the Commission's rules, 47 C.F.R. § 25.112(a)(1), and Section 0.261 of the Commission's rules, 47 C.F.R. § 0.261, we dismiss these applications without prejudice to re-filing.

Sincerely,

Paul E. Blais
Chief, Systems Analysis Branch
Satellite Division
International Bureau

[10] (10 log (15.1) + 45.7 dBi = 57.5 dBW

[11] 57.5-10*log(1.34x10^6)+ 10*log(4000)= 32.2